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Supplier	Product	Technical Summary	
Degussa: Carbon Blacks	Corax N110	Normal Carbon Black; Iodine Number = 139-151g/kg, DPB Number = 108-118cc/100g, Surface Area = 128 m ² /g, Tint Strength = 116-126%ITRB, 30' Modulus vs. IRB-6 = -220 TO 180 PSI, 30' Tensile vs. IRB-6 = -270 MIN.; Super Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tire treads, conveyor belts, tank tracks, bridge pads.	
Degussa: Carbon Blacks	Corax N220	Normal Carbon Black; Iodine Number = 116-126g/kg, DPB Number = 109-119cc/100g, Surface Area = 128 m ² /g, Tint Strength = 110-120%ITRB, 30' Modulus vs. IRB-6 = -120 TO 380 PSI, 30' Tensile vs. IRB-6 = -230 MIN.; Intermediate Super Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in truck treads, belts, general.	
Degussa: Carbon Blacks	Corax N234	Carbon Black; Iodine Number = 115-125g/kg, DPB Number = 120-130cc/100g, Surface Area = 119 m ² /g, Tint Strength = 117-129%ITRB, 30' Modulus vs. IRB-6 = 140 TO 540 PSI, 30' Tensile vs. IRB-6 = -160 MIN.; Intermediate Super Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in truck treads, belts, general.	
Degussa: Carbon Blacks	Corax N299	Carbon Black; Iodine Number = 103-113g/kg, DPB Number = 119-129cc/100g, Surface Area = 104 m ² /g, Tint Strength = 107-117%ITRB, 30' Modulus vs. IRB-6 = 270 TO 670 PSI, 30' Tensile vs. IRB-6 = -230 MIN.; Intermediate Super Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tire treads, belts, general.	
Degussa: Carbon Blacks	Corax N326	Carbon Black; Iodine Number = 77-87g/kg, DPB Number = 67-77cc/100g, Surface Area = 83 m ² /g, Tint Strength = 106-116%ITRB, 30' Modulus vs. IRB-6 = -480 TO -80 PSI, 30' Tensile vs. IRB-6 = 85 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods. Low structure combined with a high tear resistance. Used in steel-cord bonding compounds or on tire sidewalls.	
Degussa: Carbon Blacks	Corax N330	Normal Carbon Black; Iodine Number = 77-87g/kg, DPB Number = 97-107cc/100g, Surface Area = 82 m ² /g, Tint Strength = 98-108%ITRB, 30' Modulus vs. IRB-6 = 50 TO 450 PSI, 30' Tensile vs. IRB-6 = -290 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods.	
Degussa: Carbon Blacks	Corax N339	Carbon Black; Iodine Number = 85-95g/kg, DPB Number = 115-125cc/100g, Surface Area = 94 m ² /g, Tint Strength = 106-116%ITRB, 30' Modulus vs. IRB-6 = 300 TO 700 PSI, 30' Tensile vs. IRB-6 = -190 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods.	
Degussa: Carbon Blacks	Corax N347	Carbon Black; Iodine Number = 85-95g/kg, DPB Number = 119-129cc/100g, Surface Area = 87 m ² /g, Tint Strength = 98-108%ITRB, 30' Modulus vs. IRB-6 = 250 TO 650 PSI, 30' Tensile vs. IRB-6 = -240 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods.	
Degussa: Carbon Blacks	Corax N351	Carbon Black; Iodine Number = 63-73g/kg, DPB Number = 115-125cc/100g, Surface Area = 73 m ² /g, Tint Strength = 95-105%ITRB, 30' Modulus vs. IRB-6 = 320 TO 720 PSI, 30' Tensile vs. IRB-6 = -180 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods.	
Degussa: Carbon Blacks	Corax N358	Carbon Black; Iodine Number = 77-87g/kg, DPB Number = 145-155cc/100g, Surface Area = 83 m ² /g, Tint Strength = 95-103%ITRB, 30' Modulus vs. IRB-6 = 430 TO 930 PSI, 30' Tensile vs. IRB-6 = -300 MIN.; High Abrasion Furnace Black for reinforcing or hard blacks or tread blacks. Used in tires, belts, hose, mechanical goods.	

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	Search Text	Dbs	Time Stamp
1	tire and clay and silica and (carbon adj black)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 11:57
2	silica same (nitrogen adj absorption)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 11:58
3	(carbon adj black) same (nitrogen adj absorption)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 11:59
4	(tire and clay and silica and (carbon adj black)) and (silica same (nitrogen adj absorption)) and ((carbon adj black) same (nitrogen adj absorption))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:15
5	"5840113"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:17
6	"5840795"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:17
7	"6080809"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:18
8	("5840113" or "5840795" or "6080809") and clay	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:19
9	((("5840113" or "5840795" or "6080809") and clay) and silica	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:20
10	((("5840113" or "5840795" or "6080809") and clay) and silica) and (carbon adj black)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:20
11	(tire adj tread) same (silica and clay and (carbon adj black))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:52
12	(524/445).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:53

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13	(524/446).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:53
14	(524/494).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:53
15	(524/493).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:53
16	(524/495).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:54
17	(524/495).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:54
18	(524/447).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:55
19	(524/449).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:55
20	(524/450).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/03 12:56

PAT-NO: JP02001089598A

DOCUMENT-IDENTIFIER: JP 2001089598 A

TITLE: RUBBER COMPOSITION FOR TIRE

PUBN-DATE: April 3, 2001

INVENTOR-INFORMATION:

NAME

KAWASE, MASATO

COUNTRY

N/A

ASSIGNEE-INFORMATION:

NAME

SUMITOMO RUBBER IND LTD

COUNTRY

N/A

APPL-NO: JP11269775

APPL-DATE: September 24, 1999

INT-CL (IPC): C08L009/00, C08K003/04 , C08K003/34 ,
C08K007/18 , C08K009/02
, B60C001/00

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a rubber composition for a tire excellent in balance of electroconductivity, low heat build-up, and wet gripping properties without reducing the processability and the abrasion resistance.

SOLUTION: This rubber composition for the tire obtained by formulating 20-100 pts.wt. carbon black with fixed silica having 70-300 m²/g specific surface area measured by nitrogen absorption, and 5-30 pts.wt. clay having

0.1-5.0

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